

L Number	Hits	Search Text	DB	Time stamp
-	919	310/162.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 16:38
-	444	fractional near3 (pitch or winding or coil)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 16:45
-	2	6133663.pn.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 16:40
-	1797	(permanent adj magnet) and synchronous and rotor and flux	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 16:45
-	39364	(fractional or short or small) near3 (pitch or winding or coil)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 16:46
-	234	((permanent adj magnet) and synchronous and rotor and flux) and ((fractional or short or small) near3 (pitch or winding or coil))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 16:47
-	112	((permanent adj magnet) and synchronous and rotor and flux) and ((fractional or short or small) near3 (pitch or winding or coil))) and slots	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 16:57
-	0	stator and (coil adj width) and rotor and pole and (pitch near3 width) and (pitch near3 ratio)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 16:59
-	127	stator and (coil adj width)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:03
-	1	tau adj s adj p	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:05
-	1759	pole adj pitch	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:06
-	1	(stator and (coil adj width)) and (pole adj pitch adj width)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:06
-	16	pole adj pitch adj width	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:20
-	350	synchronous near3 (machine or electric or generator or motor) and rotor and stator and pole and pitch and (permanent adj magnet)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:28
-	232	(synchronous near3 (machine or electric or generator or motor) and rotor and stator and pole and pitch and (permanent adj magnet)) and 310/\$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:41
-	200	(synchronous near3 (machine or electric or generator or motor) and rotor and stator and pole and pitch and (permanent adj magnet)) and 310/\$.ccls. and winding tau	USPAT; US-PGPUB; EPO; JPO; DERWENT	2002/10/19 17:41
-	24727		USPAT; EPO; JPO; DERWENT; IBM TDB	2002/10/20 13:34

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TITLE: Permanent magnet synchronous linear motor

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NOVELTY - A permanent magnet synchronous linear motor comprising a field yoke

(1) having a plurality of permanent magnets (2) the polarity of which is

alternated and which are arranged linearly and an armature

(3) facing the array of the permanent magnets (2) through a magnetic air gap, wherein the armature

(3) comprises an armature core (4) having main tees (4b) and slots (4a), an

armature winding (5) wound in the slots (4a) of the armature core (4) and

auxiliary teeth (6) provided at both the ends of the armature core (4). The

distance tau P between the centers of the auxiliary teeth (6) and the pitch tau

m of the field poles satisfy a relation tau P=(2n-1) x tau m/2 (n is a positive

integer) and the length of the auxiliary teeth (6) is in a relation of less

than Hd less than Ht where Hd is the length of the auxiliary teeth (6) in the

direction orthogonal to the array of permanent magnets and Ht is the length of

the main teeth (4b) in the direction orthogonal to the array of permanent

magnets. Thus a high performance permanent magnet synchronous linear motor having reduced cogging thrust can be provided.